

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A line transition comprising:
a dielectric substrate;
a waveguide, the waveguide propagating electromagnetic waves within a three-dimensional space; and
a conductive pattern formed on the dielectric substrate, the conductive pattern including a coupled-line pattern segment electromagnetically coupled with the electromagnetic waves propagating through the waveguide and a transmission-line pattern segment extending from the coupled-line pattern segment, wherein
the dielectric substrate is disposed parallel to an E plane of the waveguide,
and
an edge of the dielectric substrate has a notch in the vicinity of the coupled-line pattern segment, the notch having a side that is parallel to a signal propagation direction of the coupled-line pattern segment, the length of the side being equal to or longer than a width of the E plane of the waveguide, and the notch does not extend to ends of the edge of the dielectric substrate in which the notch is located.

2. (Original) A high frequency module including the line transition according to Claim 1.

3. (Canceled)

4. (Previously presented) The line transition according to claim 1, wherein the waveguide is a solid waveguide.

5. (Previously presented) The line transition according to claim 1, wherein the conductive pattern is a planar circuit which accomplishes planar-circuit to waveguide transition.

6. (Previously presented) The line transition according to claim 1, wherein the dielectric substrate is disposed in substantially a middle of the waveguide.